

**PASSAIC RIVER REMEDIAL INVESTIGATION  
PROGRESS REPORT #14**

**REPORTING PERIOD: December 13, 2003 through January 16, 2004**

**DATE: January 30, 2004**

**Contract Number:** DACW41-02-D-0003  
**EPA IAG Numbers:** DW96941915 and DW96941975  
**Task Orders:** 0008/0011  
**MPI Project Numbers:** 0285-924/4553-001  
**USEPA Remedial Project Manager:** Alice Yeh 212-637-4427  
**MPI Project Manager:** Bruce Fidler 201-398-4365  
**MPI Deputy Project Manager:** Lisa Szegedi-Greco 201-398-4328  
**COE Contact:** Beth Buckrucker 816-983-3581

Summary of Contract Actions					
Task Order	Contract Action	Date Signed	Cost	Fee	Total Cost
0008	ATP 1	10/15/02	\$791,654	\$60,956	\$852,610
0008	ATP 2/WVN1	2/4/03	\$791,654	\$60,956	\$852,610
0008	ATP3/WVN2	9/22/03	\$791,654	\$60,956	\$852,610
0011	ATP 1	3/11/03	\$306,945	\$18,317	\$325,262
0011	ATP 2/WVN 1	9/10/03	\$306,250	\$19,012	\$325,262
0011	ATP 3/WVN 2	11/6/03	\$306,250	\$19,012	\$325,262
0011	ATP 4/WVN 3	12/1/03	\$475,483	\$27,353	\$502,836
0011	ATP 5/WVN 4	Submitted 1/8/04	\$88,305	\$5,931	\$94,236
			Total Authorized Amount		\$1,680,708

Task Order 0011 ATP 5/WVN 4 was submitted on January 8, 2004. This ATP adds monies to WAD 6.

**1. Progress Made This Reporting Period.**

**WAD 01**

This WAD has been closed

**WAD 02**

Malcolm Pirnie

On December 19, 2003 all Ventron/Velsicol documents were uploaded to the digital library in PREmis.

Throughout this period, Malcolm Pirnie and Battelle (see below) continued work on the data quality scheme. This includes reviewing the existing historical data, mapping the existing sampling locations, and beginning the data quality checklist. It is anticipated that a memo describing the scheme will be submitted to the USEPA and USACE by January 19, 2004.

#### HydroQual

HydroQual conducted the following work during the reporting period:

- Drafting of the final report
- Technical review of the findings by Dominic DiToro and subsequent discussions with the modeling team for document refinement;
- Additional computations and plotting to explain some of the findings;
- Review of the report by Tom Gallagher, Paul Anid and Kevin Farley;
- Inclusion of the comments in the draft report and finalization of the report.

#### **WAD 03**

#### Malcolm Pirnie

Throughout the reporting period, work has been ongoing on completing subcontracts for Richard Bopp, Bruce Brownawell, Jonathan Butcher, Frank Gobas, John Henningson, Wilbert Lick, Robert Mason, and Richard Luthy to serve on the technical advisory team.

On December 17, 2003, the EPA made a decision that Jon Butcher would be asked to join the technical advisory committee. An invitation letter was subsequently sent to him on December 19, 2003. Current status of the committee assembly process is as follows:

<b>Technical Expert Candidate</b>	<b>Invitation Letter Sent</b>	<b>COI Form Received</b>	<b>Subcontract Issued</b>
Bopp	17-Nov-03	2-Dec-03	21-Jan-04
Brownawell	17-Nov-03	31-Dec-03	21-Jan-04
Butcher	19-Dec-03	6-Jan-04	Will modify existing
Gobas	17-Nov-03	1-Dec-03	21-Jan-04
Henningson	17-Nov-03	12-Dec-03	21-Jan-04
Lick	17-Nov-03	5-Dec-03	21-Jan-04
Luthy	17-Nov-03	5-Dec-03	21-Jan-04
Mason	19-Nov-03	3-Dec-03	21-Jan-04
Sanford	4-Dec-03	22-Dec-03	21-Jan-04

It should be noted that execution of a subcontract for Robert Mason is contingent on

determination by USEPA that there is no conflict of interest.

Battelle

No technical work of note was conducted under this WAD. The invoice for Year 2 work was submitted internally to Battelle's contracts office and will be submitted to Malcolm Pirnie upon approval.

**WAD 04**

Malcolm Pirnie

During the reporting period, Malcolm Pirnie, Battelle, and HydroQual personnel participated in two conference calls with Passaic River Project Team Members from the United States Environmental Protection Agency (USEPA) Region 2 and the United States Army Corp of Engineers - Kansas City District (USACE - KC). These conference calls are scheduled for every other Tuesday at 9:30 EST.

On December 16, 2003 a CARP Management Committee meeting was held at the Hudson River Foundation and was attended by Alice Yeh, USEPA.

On December 19, 2003, Malcolm Pirnie personnel participated in a boat trips organized by USEPA Region 2 on the Passaic River. This included participation by an IT specialist to determine whether wireless coverage (for real-time capture and transmission of field data and logs to the site database from portable computers at the sampling locations) is present throughout the study area.

On December 19, 2003, a subcontract modification for work covered under WADs 4 and 5 was sent to Battelle for their review and execution.

On December 22, 2003, a subcontract modification for work covered under WADs 4 and 5 was sent to HydroQual for their review and execution.

On December 31, 2003, the twelfth set of Earned Value (EV) curves and Progress Report covering the period from November 8, 2003 through December 12, 2003, as well as an invoice covering the same period, were submitted to the USACE and USEPA.

On January 5, 2004, a revised schedule (updated as of December 12, 2003) was posted to the digital library.

On January 7, 2004, a Project Coordination Meeting was held at the North Jersey Transportation Planning Authority's (NJTPA) offices in Newark and attended by numerous organizations associated with the project. Agency and consultant representatives of the CARP program (i.e., from NJDEP, USGS, Rutgers and HydroQual) presented findings of the CARP sampling efforts, provided insight into data application and interpretation, and discussed the CARP modeling effort, particularly focused on applicability to the Lower Passaic River Restoration Project. Following this meeting, information was presented by vendor representative David

**Passaic River Progress Report**  
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Yang of Raito, Inc. regarding an in-situ stabilization technology. The team was encouraged to consider this technology for application to cleanup of highly-contaminated sediments as a means of minimizing resuspension during removal. The meeting agenda and sign-in sheets can be found on PREmis in the calendar and digital library.

On January 8, 2004 the Final Cost Proposal for WAD 6 was submitted to the USACE.

On January 8 and 14, 2004, WebEx training sessions were held by Malcolm Pirnie with TAMS, USEPA, USACE, Hudson River Foundation, and OMR personnel to familiarize the project team with use of PREmis.

On January 9, 2004, all EV and progress reports for the entire project were uploaded onto the digital library in PREmis in pdf format. A separate folder, available only to Malcolm Pirnie, Alice Yeh, USEPA and Beth Buckrucker, USACE, was created and MS Excel and MS Word versions of these documents were uploaded.

On January 15, 2004 a response memo was received from RSCC regarding our requests for modifications to the CLP. Since the response does not reflect our original understanding, a discussion will need to be held with them. This discussion is currently scheduled for February 10, 2004.

#### Battelle and HydroQual

During the reporting period, Malcolm Pirnie, Battelle, and HydroQual personnel participated in various conference calls with Passaic River Project Team Members. See the Malcolm Pirnie section above.

#### **WAD 05**

On December 19, 2003, Malcolm Pirnie personnel participated in boat trips organized by the New York District and USEPA Region 2 on the Passaic River to perform an initial reconnaissance to assist planning of the field sampling program, including preparation of the Draft Work Plan / Field Sampling Plan (WO 1, WE 1.5a) and Draft Quality Assurance Project Plan (WO 1, WE 1.6a).

In addition, work on each of these tasks was conducted by a graphic artist toward design of a standard project report cover which will be used across the program for consistency (including on reports prepared under the NY District contract for ecosystem restoration under WRDA and the contract with WRDA local sponsor NJDOT-OMR) (Note that those contracts shared the cost for cover design.)

MPI held internal meetings to initiate work for evaluation and documentation of historical data available to the project (WO 1, WE 1.2). Work included orientation of the delivery team, breakout of the work and organization of team assignments, and initial data review.

Battelle and HydroQual

Battelle staff participated in the risk assessment call as described above.

During this period, HydroQual initiated work on the Draft Modeling Plan.

**2. Issues and Recommended Solutions (or Outstanding Issues).**

- **Technical**

None

- **Schedule**

**Problem:** WADs 04 and 05 – Although monies have been awarded for these WADs, technical work cannot begin until monies are also awarded for WAD 06.

**Solution:** The Final Cost Proposal for WAD 06 was submitted to the USACE on January 8, 2004. Once this proposal is awarded, work can begin on WADs 4-6.

- **Funding**

**Problem:** WAD 02, WO 06, Mass Balance - This task is over budget due to delays caused by the elongated approval process for authorizing use of the CARP data and framework. This delay caused HydroQual to look at alternative technical approaches. That search contributed to expenditures beyond what was originally anticipated. In addition, once authorization was granted, additional efforts were needed for transferring the data between the two projects and have it processed and plotted. The CARP data is not necessarily organized to fit the Passaic project needs; specific congener information per media, spatially and temporally had to be extracted and processed.

**Solution:** Some of the expenditures will be covered by technical support budgets.

**Problem:** WAD 02, WO 07, WE 01, Evaluate HEP/CARP Modeling Framework - This task is slightly over budget due to the two sequential reviews conducted by Malcolm Pirnie, one of them by a sediment modeling staff member new to the project.

**Solution:** Since this was the most critical of the reviews of modeling work in terms of how other team partners / agencies will understand the effort, reviews of other modeling products will be cut back to balance the expenditures.

**Problem:** WAD 03, WO 01, WE 01, Project Management - This task is slightly over budget since it was only budgeted through the end of October 2003. Since WAD 04 Project Management monies were not awarded until December 1, 2003, this task is over by one month of management dollars.

**Solution:** An ATP/WVN will be required to move monies into this task.

**Problem:** WAD 03, WO 08, WE 01, Establish Technical Expert Team – As a result of the framework for claiming earned value, this task appears to be over

budget since time has been charged, but no earned value has been taken yet. However, the schedule for execution of subcontracts was extended by the process for determining the roles and makeup of the Technical Expert Team (now called the Technical Advisory Committee), and confirming their eligibility, availability and willingness to serve.

**Solution:** The apparent budget variance will decrease once subcontracts are established since earned value can then be claimed. As noted above, subcontracts have been issued for review and execution to eight of the nine selected technical advisors. The remaining advisor is already under subcontract for a task order relating to a different project; this subcontract will be modified to encompass the work under this task order.

### **3. Anticipated/Planned Activities in Next 30 Days**

#### Malcolm Pirnie

- January 19, 2004 – the data quality scheme memo will be submitted to the USACE and USEPA (WAD 03)
- January 20, 2004 – A conference call is scheduled with Malcolm Pirnie, USACE, and USEPA to discuss the GIS mapping options for the project.
- January 20, 2004 – The Administrative Record for the Diamond Alkali site will be uploaded to ourpassaic.org
- January 21, 2004 – A meeting is scheduled with TSI to discuss their data
- January 22, 2004 – A meeting is scheduled with the NJDEP to review their files for the following sites; NJDOT Route 21 Expansion, Pierson Industries, and Sherwin Williams
- January 30, 2004 – USACE will award monies toward Task Order 0011, WAD 06
- February 10, 2004 – A call is scheduled with RSCC to discuss their response to our request for modifications to the CLP
- February 18, 2004 – A scoping meeting is scheduled for the project

#### HydroQual

- January 19, 2004 – HydroQual's Mass Balance Modeling Report is due.

### **4. Key Personnel Additions or Changes**

None

### **5. Attachments**

**Passaic River Progress Report**  
**December 13, 2003 through January 16, 2004**

Summary of 90-Day Projections for Wads 4 and 5, Task Order 0011  
Summary of Task Order No. 0008, Page 1  
Summary of WADs 1 and 2, Task Order 0008, Page 2  
Summary of WAD 1 Task Order 0008 – Project Management Administration, Page 3  
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**90-Day Projections**  
**January 16, 2004 through April 17, 2004**

	30-day projection			60-day projection		90-day projection			
	Start Date	End Date	Cost	End Date	Total Cost	End Date	Total Cost for 90 days	Monies already spent	Total
<b>WAD 04 Project Management and Community Relations</b>									
<b>WO 1 Project Management and Administration</b>									
1.1 Project Management	01/16/04	02/15/04	\$5,010	03/17/04	\$10,020	04/17/04	\$15,030	\$13,519	\$28,549
1.2 Project Support Documentation and Administration	01/16/04	02/15/04	\$4,980	03/17/04	\$9,960	04/17/04	\$14,940	\$6,076	\$21,016
1.3a Subcontract Administration Laboratories	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.3b Subcontract Administration Field Sampling Support	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.3c Subcontract Administration Professional Subcontractors	01/16/04	02/15/04	\$2,970	03/17/04	\$5,940	04/17/04	\$8,910	\$7,182	\$16,092
1.4 Project Communications (Teleconferences, Meetings)	01/16/04	02/15/04	\$8,400	03/17/04	\$16,800	04/17/04	\$25,200	\$2,546	\$27,746
<b>WO 2 Community Relations</b>									
2.1a Public Meeting Support (graphics/attendance)	01/16/04	02/15/04	\$0	03/17/04	\$94	04/17/04	\$2,914	\$0	\$2,914
2.1b Fact Sheets (topic-specific)	01/16/04	02/15/04	\$0	03/17/04	\$2,040	04/17/04	\$4,080	\$0	\$4,080
2.2a Stakeholder/Community Interviews	01/16/04	02/15/04	\$3,419	03/17/04	\$11,309	04/17/04	\$19,199	\$0	\$19,199
2.2b Draft Community Involvement Plan	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$6,739	\$0	\$6,739
2.2c RTC/Final CIP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
<b>WO 3 Technical Support</b>									
3.1 MPI Technical Support	01/16/04	02/15/04	\$1,860	03/17/04	\$3,720	04/17/04	\$5,580	\$3,701	\$9,281
3.2 Subcontractor Technical Support	01/16/04	02/15/04	\$990	03/17/04	\$1,980	04/17/04	\$2,970	\$0	\$2,970
<b>WAD 05 Technical Studies &amp; Investigations</b>									
<b>WO 1 RI/FS Work Plan Preparation</b>									
1.1 Agency Coordination Scoping Meeting	01/16/04	02/15/04	\$0	03/17/04	\$7,084	04/17/04	\$14,674	\$0	\$14,674
1.2 Evaluation and Documentation of Historical Data	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$13,940	\$1,693	\$15,633
1.3 Identify Draft DQOs/ARARs/PRGs	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.4 Modeling Plan	01/16/04	02/15/04	\$16,536	03/17/04	\$35,616	04/17/04	\$54,696	\$4,475	\$59,171
1.5a Preliminary Draft/Outline WP/FSP/RTC	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$1,110	\$1,110
1.5b Draft Final WP/FSP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.5c RTC Final WP/FSP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.6a Preliminary Draft/Outline QAPP/RTC	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$1,194	\$1,194
1.6b Draft Final QAPP/Final DQOs	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.6c RTC/Final QAPP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.7a Preliminary Draft/Outline HASP/RTC	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.7b Draft Final HASP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0

**90-Day Projections**  
**January 16, 2004 through April 17, 2004**

	Start Date	End Date	Cost	End Date	Total Cost	End Date	Total Cost for 90 days	Monies already spent	Total
1.7c RTC/Final HASP	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.8a Meeting with PRPs	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
1.8b RTC and Dissemination of Public Information	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
<b>WO 2 Preliminary Risk Assessment</b>									
2.1 Preliminary Risk Assessment CoC and Pathway Analyses	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$397	\$397
<b>WAD 06 Data Management and Presentation</b>									
1 Map Guide	01/16/04	02/15/04	\$1,128	03/17/04	\$18,048	04/17/04	\$34,968	\$0	\$34,968
2.1 Maintenance and Support	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
3.1 Field Application Module Development (e.g., COC, comments, corrections)	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$1,470	\$0	\$1,470
3.2 Website Reports (field data views)	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$1,350	\$0	\$1,350
3.3 Management Website Reports	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
3.4 Maintenance and Support	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
4 Database (update for MEDD fields, etc.)	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
5 Field Application	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
6 Technical Task Communication	01/16/04	02/15/04	\$0	03/17/04	\$0	04/17/04	\$0	\$0	\$0
<b>Totals:</b>			<b>\$45,293</b>		<b>\$122,611</b>		<b>\$226,660</b>		<b>\$268,554</b>

Notes:

- 1) The above figures do not include fee
- 2) The above figures reflect the negotiated, not obligated budget

**SUMMARY OF TASK ORDER NO. 0008**  
**MANAGEMENT, SUPPORT, AND INVESTIGATION**  
**12/13/03-1/16/04**  
**Progress Report #14**

Task Order No. 0008	Current Budget Cost (BC)	Scheduled Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Estimate to Complete (ETC)	Estimate at Completion (EAC)
WAD 01 (Project Management Administration)	\$ 221,783	\$ 224,727	\$ 226,283	97.6%	\$ 216,444	\$ 2,294	\$ 228,577
WAD 02 (RI/FS Services)	\$ 569,654	\$ 567,824	\$ 577,451	99.4%	\$ 565,980	\$ 5,137	\$ 582,587
NA (Fee)	\$ 60,787	\$ 61,028	\$ 60,197	99.5%	NA	\$ 598	\$ 62,168
<b>Total (Less Fee)</b>	<b>\$ 791,437</b>	<b>\$ 792,552</b>	<b>\$ 803,733</b>	<b>99.5%</b>	<b>\$ 782,424</b>	<b>\$ 7,431</b>	<b>\$ 811,164</b>

Task Order No. 0008	Cost Variance (CVAR)	Schedule Variance (SVAR)	Cost Performance Index (CPI)	Schedule Performance Index (SPI)	CPI/SPI Ratio
WAD 01 (Project Management Administration)	\$ (6,736)	\$ (8,283)	0.96	0.96	0.99
WAD 02 (RI/FS Services)	\$ (11,471)	\$ (1,845)	0.98	1.00	0.98
NA (Fee)	NA	NA	NA	NA	NA
<b>Total (Less Fee)</b>	<b>\$ (18,207)</b>	<b>\$ (10,128)</b>	<b>0.97</b>	<b>0.99</b>	<b>0.99</b>

Prepared 1/30/04

	MPI	HQI	Battelle	Total
Total Budget	\$553,244	\$275,935	\$23,432	\$852,611
Total Expended	\$529,708	\$304,846	\$18,057	\$852,611
Remaining Funds	\$23,536	-\$28,911	\$5,375	\$0
Schedule Status	On Schedule	Work slightly behind schedule	On Schedule	

**Calculations:**

PCT = (BCWP/BC) X 100\*

ETC = (BC-BCWP)/(BCWP/ACWP)\*\*

It should be noted that this calculation is conducted at a work element level, not a work order level.

CAC = ACWP + ETC

CVAR=BCWP-AWCP

SVAR=BCWP-BCWS

CPI = BCWP/ACWP

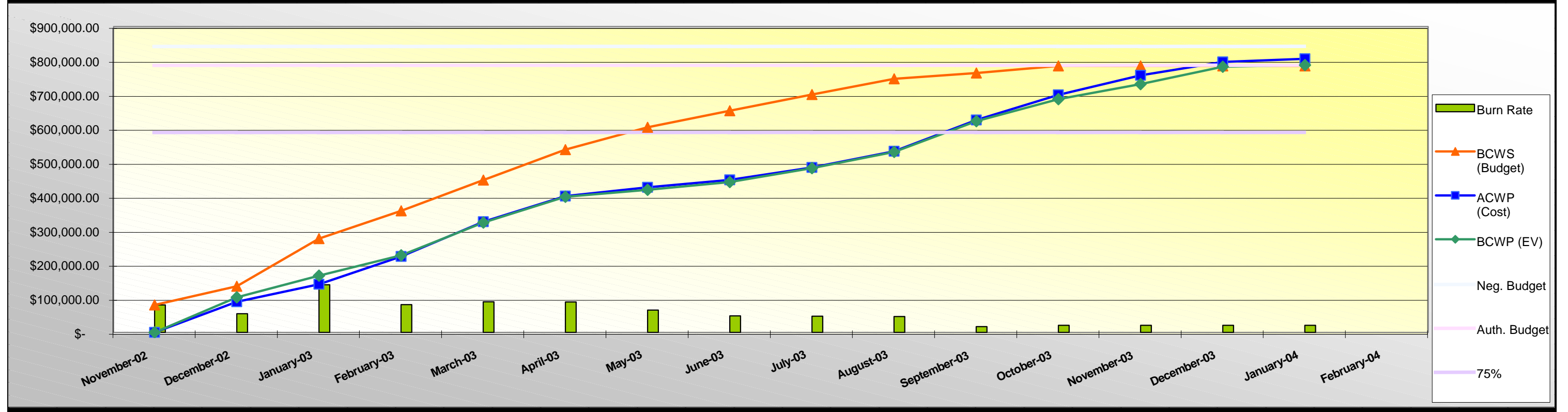
SPI = BCWP/BCWS

\* - PCT for Fee is calculated less travel, since travel expense costs are not fee-bearing.

\*\* - Generally, this formula is used to calculate ETC; however, wherever warranted a judgmental ETC is estimated.

# Cost/Schedule Through January 16, 2004

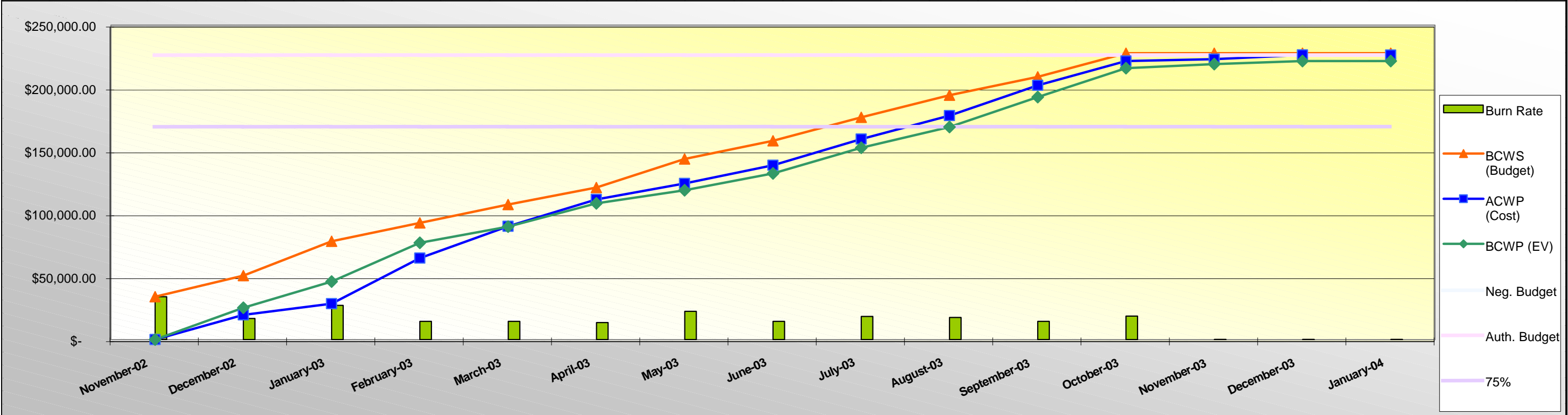
## Summary of WADs 1 and 2 Task Order 0008



**Note:** The earned value curves depict labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

Cost/Schedule Through January 16, 2004

Summary of WAD 1 Task Order 0008 - Project Management Administration

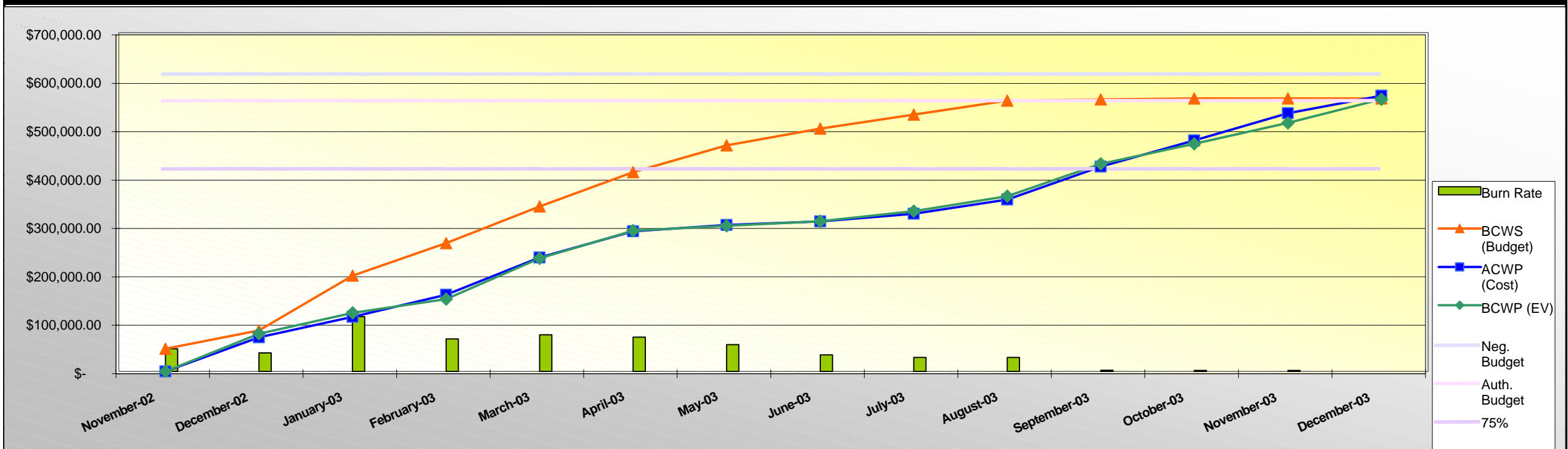


WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
1	1	00	Project Administration/Reporting	\$ 140,939.25	\$ 138,313.34	\$ 147,017.58	100.0%	\$ 140,939.25	\$ -	\$ 147,017.58	\$ (6,078.33)	\$ 2,625.91
1	2	00	Meetings	\$ 23,495.00	\$ 23,496.00	\$ 22,250.38	100.0%	\$ 23,496.00	\$ (0.95)	\$ 22,249.43	\$ 1,245.62	\$ -
1	3	00	Technical Support	\$ 27,716.00	\$ 35,901.00	\$ 27,710.56	100.0%	\$ 27,710.56	\$ 5.44	\$ 27,716.00	\$ -	\$ (8,190.44)
1	0	00	Labor Totals	\$ 192,150.25	\$ 197,710.34	\$ 196,978.52	100.0%	\$ 192,145.81	\$ 4.49	\$ 196,983.01	\$ (4,832.71)	\$ (5,564.53)
1	0	00	Expenses(Computer/Reproduction)	\$ 24,972.00	\$ 25,056.00	\$ 24,603.57	98.5%	\$ 24,603.57	\$ 368.43	\$ 24,972.00	\$ -	\$ (452.43)
1	0	00	Travel and Lodging Expenses	\$ 3,000.00	\$ 300.00	\$ 3,102.45	103.4%	\$ 3,102.45	\$ (102.45)	\$ 3,000.00	\$ -	\$ 2,802.45
1	0	00	Subcontractor Fee	\$ 1,661.00	\$ 1,661.00	\$ 1,598.01	96.2%	\$ 1,598.01	\$ 62.99	\$ 1,661.00	\$ -	\$ (62.99)
1	0	00	WAD Fee(Less Travel)	\$ 17,369.78	\$ 17,821.31	\$ 17,339.95	99.8%	\$ -	\$ 29.83	\$ 17,756.40	\$ -	\$ -
1	0	00	Job To DateTotals(Less Fee)	\$ 221,783.25	\$ 224,727.34	\$ 226,282.55	99.8%	\$ 216,749.38	\$ 333.46	\$ 226,616.01	\$ (4,832.71)	\$ (7,977.96)

**Note:** The earned value curves depict labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

## Cost/Schedule Through January 16, 2004

### Summary of WAD 2 Task Order 0008 - RI/FS Services



WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
2	1	00	Pre-Expansion Activity Plan	\$ 49,545.44	\$ 49,545.44	\$ 49,543.44	100.0%	\$ 49,545.44	\$ -	\$ 49,543.44	\$ 2.00	\$ -
2	2	00	Inventory Historical Data	\$ 80,618.08	\$ 80,617.89	\$ 81,111.81	98.5%	\$ 79,445.20	\$ 1,197.48	\$ 82,309.29	\$ (1,666.61)	\$ (1,172.69)
2	3	00	Evaluate HEP/CARP Database	\$ 29,938.03	\$ 29,938.35	\$ 29,938.14	100.0%	\$ 29,938.03	\$ -	\$ 29,938.14	\$ (0.11)	\$ (0.32)
2	5	00	Develop Detailed Conceptual Model	\$ 88,894.00	\$ 88,894.00	\$ 89,507.98	99.7%	\$ 88,589.08	\$ 308.08	\$ 89,816.06	\$ (918.90)	\$ (304.92)
2	6	00	Prelim Contaminant Mass Balance and In-Situ Mass Quantification	\$ 164,160.00	\$ 164,160.06	\$ 166,924.32	100.0%	\$ 164,160.00	\$ -	\$ 166,924.32	\$ (2,764.32)	\$ (0.06)
2	7	00	Evaluate HEP/CARP Tier 2 Modeling Framework	\$ 11,214.00	\$ 11,214.00	\$ 15,773.87	100.0%	\$ 11,214.00	\$ -	\$ 15,773.87	\$ (4,559.87)	\$ -
2	8	00	Development and Implementation Website/GIS	\$ 89,888.52	\$ 89,888.52	\$ 89,752.62	99.3%	\$ 89,229.22	\$ 663.17	\$ 90,415.79	\$ (523.40)	\$ (659.30)
2	10	00	Quality Control Plan	\$ 12,329.81	\$ 12,329.81	\$ 12,330.32	100.0%	\$ 12,329.81	\$ 0.00	\$ 12,330.32	\$ (0.51)	\$ -
2	0	00	Labor Totals	\$ 526,587.88	\$ 526,588.07	\$ 534,882.50	99.6%	\$ 524,450.78	\$ 2,168.73	\$ 537,051.23	\$ (10,431.72)	\$ (2,137.29)
2	0	00	Expenses(Non-Travel)	\$ 16,133.00	\$ 13,493.36	\$ 13,165.14	81.6%	\$ 13,165.14	\$ 2,967.86	\$ 16,133.00	\$ -	\$ (328.22)
1	0	00	Travel and Lodging Expenses	\$ 2,147.00	\$ 2,738.00	\$ 1,039.26	48.4%	\$ 1,039.26	\$ 1,107.74	\$ 2,147.00	\$ -	\$ (1,698.74)
1	0	00	Subcontractor Fee	\$ 24,786.00	\$ 25,005.00	\$ 28,363.78	114.4%	\$ 28,363.78	\$ (3,577.78)	\$ 24,786.00	\$ -	\$ 3,358.78
2	0	00	WAD Fee(Less Travel)	\$ 43,417.67	\$ 43,206.51	\$ 43,009.27	99.1%	\$ -	\$ 410.93	\$ 44,254.74	\$ -	\$ -
2	0	00	Job To Date Totals(Less Fee)	\$ 569,653.88	\$ 567,824.43	\$ 577,450.68	99.4%	\$ 565,979.70	\$ 5,136.59	\$ 582,587.27	\$ (11,470.98)	\$ (1,844.73)

**Note:** The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

**SUMMARY OF TASK ORDER NO. 0011**  
**ADDITIONAL RI/FS SERVICES**  
**12/13/03-1/16/04**  
**Progress Report #14**

Task Order No. 0011	Current Budget Cost (BC)	Scheduled Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Estimate to Complete (ETC)	Cost at Completion (CAC)
WAD 03 (Project Management Adminstration)	\$ 306,249	\$ 264,260	\$ 209,698	59.39%	\$ 181,877	\$ 143,396	\$ 353,093
WAD 04 (Project Management Adminstration)	\$ 184,741	\$ 61,798	\$ 33,025	23.11%	\$ 42,691	\$ 109,886	\$ 142,911
WAD 05 (Technical Studies)	\$ 290,745	\$ 145,743	\$ 8,869	2.74%	\$ 7,969	\$ 314,715	\$ 323,583
NA (Fee)	\$ 46,365	\$ 28,628	\$ 14,072	29.75%	NA	\$ 39,679	\$ 56,868
<b>Total (Less Fee)</b>	<b>\$ 781,735</b>	<b>\$ 471,801</b>	<b>\$ 251,592</b>	<b>29.75%</b>	<b>\$ 232,538</b>	<b>\$ 567,996</b>	<b>\$ 819,588</b>

Task Order No. 0011	Cost Variance (CVAR)	Schedule Variance (SVAR)	Cost Performance Index (CPI)	Schedule Performance Index (SPI)	CPI/SPI Ratio
WAD 03 (Project Management Adminstration)	\$ (27,820)	\$ (82,382)	0.87	0.69	1.26
WAD 04 (Project Management Adminstration)	\$ 9,666	\$ (19,106)	1.29	0.69	1.87
WAD 05 (Technical Studies)	\$ (900)	\$ (137,775)	0.90	0.05	16.43
NA (Fee)	NA	NA	NA	NA	NA
<b>Total (Less Fee)</b>	<b>\$ (19,054)</b>	<b>\$ (239,263)</b>	<b>0.92</b>	<b>0.49</b>	<b>1.88</b>

Prepared 1/30/04

Note: Cost at Completion (CAC) is calculated from the Earned Value taken to date and will calculate inaccurately until more Earned Value is taken on certain tasks.

Note: A schedule for the work cannot be determined until WAD 6 is negotiated.

	MPI	Battelle	HQL	TAMS	Total
Total Budget	\$544,648	\$170,949	\$105,638	\$6,865	\$828,100
Total Expended	\$126,197	\$87,745	\$5,132	\$0	\$219,073
Remaining Funds	\$418,451	\$83,205	\$100,506	\$6,865	\$609,027
Schedule Status	NA	NA	NA	NA	NA

**Calculations:**

PCT = (BCWP/BC) X 100\*

ETC = (BAC-BCWP)/(BCWP/ACWP)\*\*

CAC = ACWP + ETC

CVAR=BCWP-ACWP

SVAR=BCWP-BCWS

CPI = BCWP/ACWP

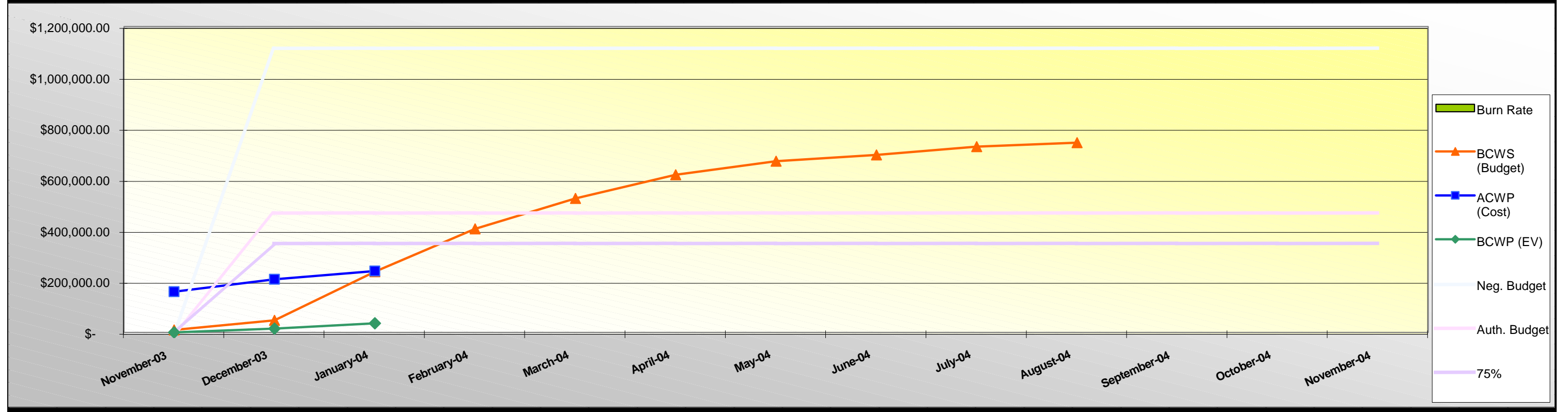
SPI = BCWP/BCWS

\* - PCT for Fee is calculated less travel, since travel expense costs are not fee-bearing.

\*\* - Generally, this formula is used to calculate ETC; however, wherever warranted a judgmental ETC is estimated.

# Cost/Schedule Through January 16, 2004

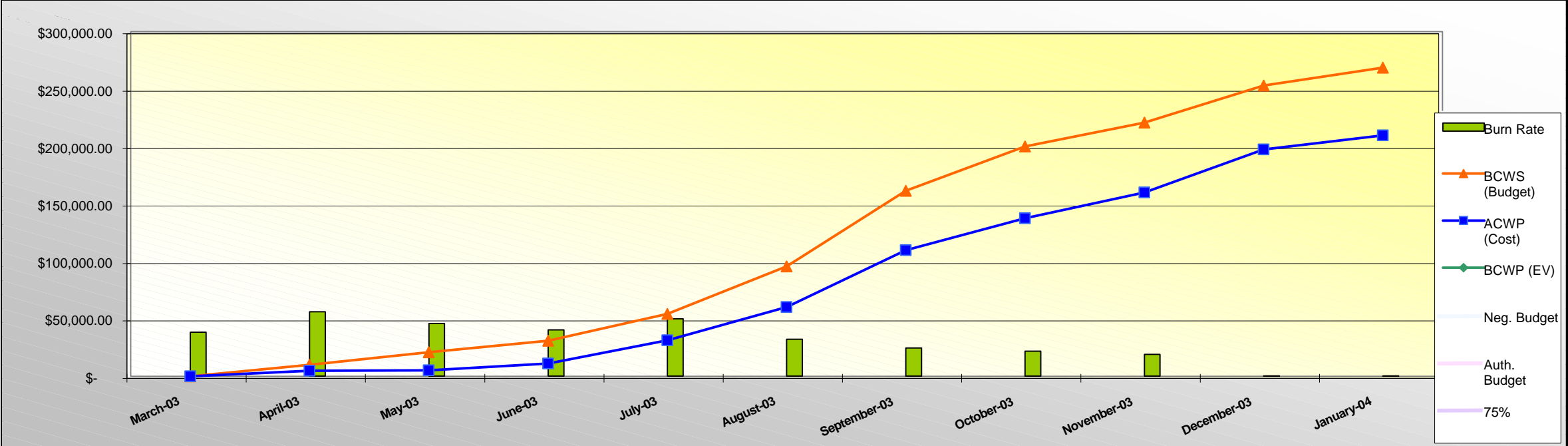
## Summary of WADs 3, 4, and 5 Task Order 0011



**Note:** The earned value curves depict labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

Cost/Schedule Through January 16, 2004

Summary of WAD 3 Task Order 0011 - Additional RI/FS Services

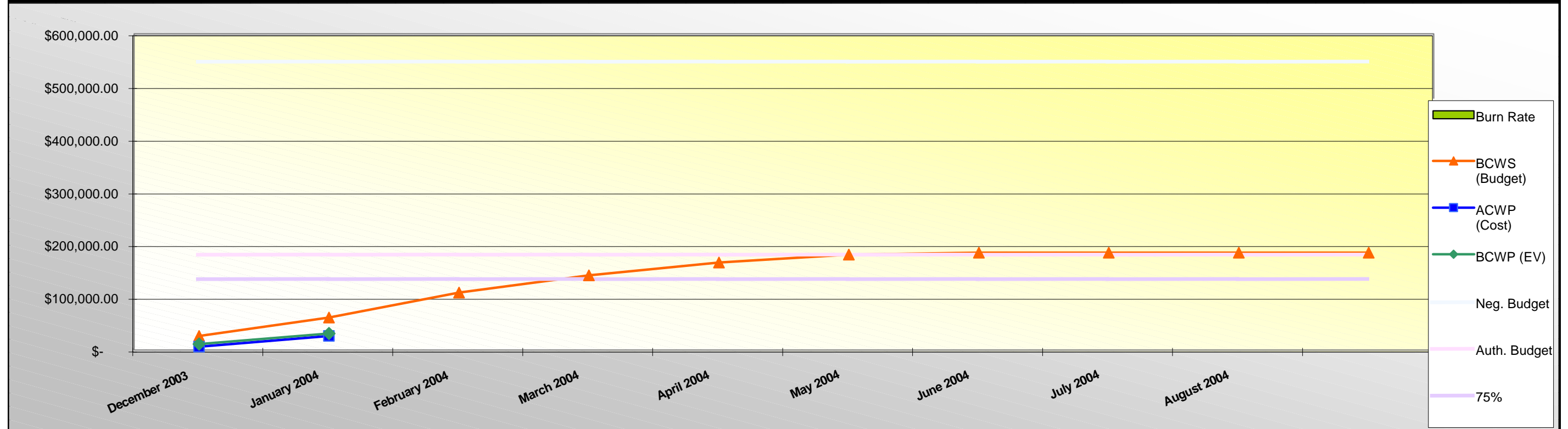


WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
3	1	00	Project Administration/Report	\$ 30,363.00	\$ 30,363.00	\$ 41,411.27	100.0%	\$ 30,363.00	\$ -	\$ 41,411.27	\$ (11,048.27)	\$ -
3	2	00	Meetings	\$ 8,654.00	\$ 6,462.00	\$ 6,490.50	78.9%	\$ 6,829.50	\$ 1,733.94	\$ 8,224.44	\$ 339.00	\$ 367.50
3	3	00	PEAP and Schedule	\$ 11,099.00	\$ 11,099.00	\$ 12,260.62	100.0%	\$ 11,099.00	\$ -	\$ 12,260.62	\$ (1,161.62)	\$ -
3	4	00	Populate & QC Database	\$ 60,888.00	\$ 58,553.66	\$ 43,501.30	71.31%	\$ 43,421.45	\$ 17,498.67	\$ 60,999.97	\$ (79.85)	\$ (15,132.21)
3	4.1	00	Develop Data Scheme	\$ 16,673.00	\$ 16,673.00	\$ 12,314.45	73.86%	\$ 12,314.45	\$ 4,358.55	\$ 16,673.00	\$ -	\$ (4,358.55)
3	4.2	00	Populate Analytical Database	\$ 44,215.00	\$ 41,880.66	\$ 31,186.85	70.4%	\$ 31,107.00	\$ 13,141.65	\$ 44,328.50	\$ (79.85)	\$ (10,773.66)
3	5	00	Integration with HEP/CARP	\$ 156,567.00	\$ 121,631.28	\$ 79,638.49	50.5%	\$ 79,013.34	\$ 78,167.26	\$ 157,805.75	\$ (625.15)	\$ (42,617.94)
3	6	00	Establish Technical Expert Te	\$ 23,740.00	\$ 23,740.00	\$ 15,244.39	0.0%	\$ -	\$ #DIV/0!	\$ #DIV/0!	\$ (15,244.39)	\$ (23,740.00)
1	0	00	Labor Totals	\$ 291,311.00	\$ 251,848.94	\$ 198,546.57	58.6%	\$ 170,726.29	\$ 140,234.29	\$ 338,780.86	\$ (27,820.28)	\$ (81,122.65)
1	0	00	Expenses(Computer/Repro	\$ 7,929.00	\$ 6,581.66	\$ 5,119.55	64.57%	\$ 5,119.55	\$ 2,809.45	\$ 7,929.00	\$ -	\$ (1,462.11)
1	0	00	Travel and Lodging Expens	\$ -	\$ -	\$ 291.32	#DIV/0!	\$ 291.32	\$ (291.32)	\$ -	\$ -	\$ 291.32
1	0	00	Subcontractor Fee	\$ 6,995.00	\$ 5,829.16	\$ 5,740.30	82.06%	\$ 5,740.30	\$ 1,254.70	\$ 6,995.00	\$ -	\$ (88.86)
1	0	00	WAD Fee(Less Travel)	\$ 18,589.76	\$ 16,382.65	\$ 10,924.12	58.8%	\$ -	\$ 10,013.06	\$ 24,269.69	\$ -	\$ -
1	0	00	Job To DateTotals(Less Fee	\$ 306,249.00	\$ 264,259.76	\$ 209,697.74	59.4%	\$ 181,877.46	\$ 143,395.62	\$ 353,093.36	\$ (27,820.28)	\$ (82,382.30)

**Note:** The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

## Cost/Schedule Through January 16, 2004

### Summary of WAD 4 Task Order 0011 - Additional RI/FS Services

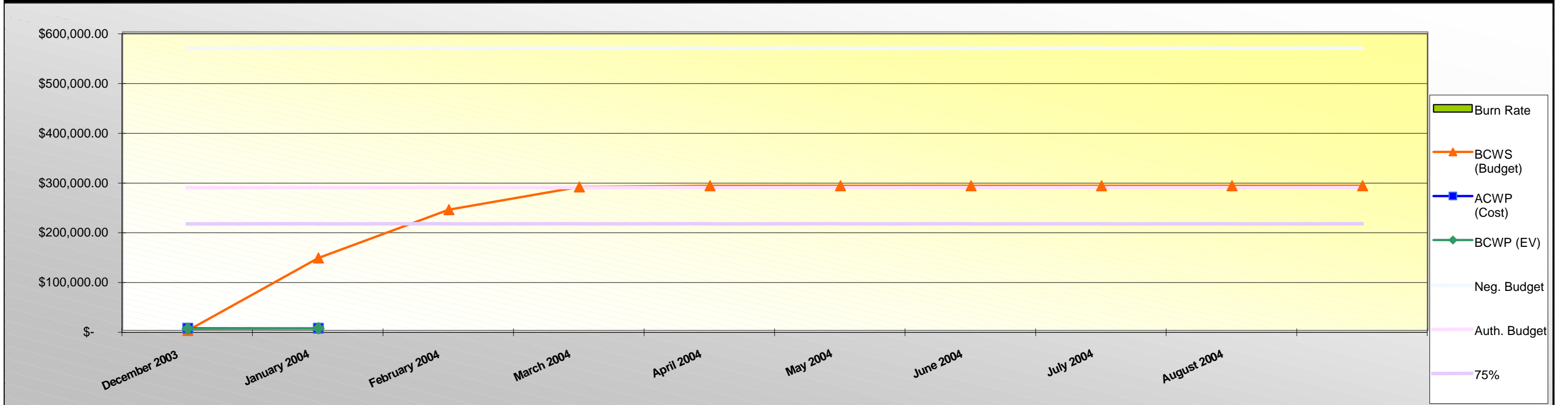


WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
4	1	00	Project Administration/Report	\$ 137,388.00	\$ 58,077.63	\$ 29,324.19	28.4%	\$ 39,018.75	\$ 73,928.52	\$ 103,252.71	\$ 9,694.56	\$ (19,058.88)
4	2	00	Community Relations	\$ 25,165.50	\$ -	\$ -	-	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ -
4	2.1	00	Communication	\$ 12,176.50	\$ -	\$ -	0.00%	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ -
4	2.2	00	Community Involvement Plan	\$ 12,989.00	\$ -	\$ -	-	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ -
4	3	00	Technical Support	\$ 21,519.00	\$ 3,586.50	\$ 3,700.84	26.20%	\$ 3,672.70	\$ 17,983.04	\$ 21,683.88	\$ (28.14)	\$ 86.20
1	0	00	Labor Totals	\$ 184,072.50	\$ 61,664.13	\$ 33,025.03	23.2%	\$ 42,691.45	\$ 109,368.82	\$ 142,393.85	\$ 9,666.42	\$ (18,972.68)
1	0	00	Travel and Lodging Expenses	\$ 668.50	\$ 133.70	\$ -	0.0%	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ (133.70)
1	0	00	WAD Fee(Less Travel)	\$ 11,773.00	\$ 4,033.05	\$ 2,720.60	23.1%	\$ -	\$ 7,655.82	\$ 9,967.57	\$ -	\$ -
1	0	00	Job To Date Totals(Less Fee)	\$ 184,741.00	\$ 61,797.83	\$ 33,025.03	23.1%	\$ 42,691.45	\$ 109,885.95	\$ 142,910.98	\$ 9,666.42	\$ (19,106.38)

**Note:** The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

## Cost/Schedule Through January 16, 2004

### Summary of WAD 5 Task Order 0011 - Additional RI/FS Services



WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
5	1	00	RI/FS Work Plan Prep	\$ 281,048.00	\$ 141,020.83	\$ 8,472.05	2.7%	\$ 7,572.08	\$ 305,979.55	\$ 314,451.60	\$ (899.97)	\$ (133,448.75)
5	1.4	00	Modeling Plan	\$ 110,433.00	\$ 34,235.17	\$ 4,475.34	0.04	\$ 4,233.92	\$ 112,254.60	\$ 116,729.94	\$ (241.42)	\$ (30,001.25)
5	1.5	00	Work Plan and Field Sampling Plan	\$ 44,188.00	\$ 14,729.33	\$ 1,109.66	0.01	\$ 552.35	\$ 87,663.14	\$ 88,772.80	\$ (557.31)	\$ (14,176.98)
5	1.6	00	Quality Assurance Project Plan (QAPP)	\$ 22,567.00	\$ 7,522.33	\$ 1,194.38	0.05	\$ 1,128.35	\$ 22,693.22	\$ 23,887.60	\$ (66.03)	\$ (6,393.98)
5	1.7	00	Health and Safety Plan (HASP)	\$ 4,550.00	\$ 2,275.00	\$ -	0.00%	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ (2,275.00)
5	2	00	Preliminary Risk Assessment	\$ 9,445.00	\$ 4,722.50	\$ 396.76	4.20%	\$ 396.69	\$ 9,049.91	\$ 9,446.67	\$ (0.07)	\$ (4,325.81)
1	0	00	Labor Totals	\$ 290,493.00	\$ 145,743.33	\$ 8,868.81	2.7%	\$ 7,968.77	\$ 314,434.19	\$ 323,303.00	\$ (900.04)	\$ (137,774.56)
1	0	00	Travel and Lodging Expenses	\$ 252.00	\$ -	\$ -	0.00%	\$ -	#DIV/0!	#DIV/0!	\$ -	\$ (252.00)
1	0	00	WAD Fee(Less Travel)	\$ 15,580.00	\$ 8,212.64	\$ 427.39	2.7%	\$ -	\$ 22,010.39	\$ 22,631.21	\$ -	\$ -
1	0	00	Job To DateTotals(Less Fee)	\$ 290,745.00	\$ 145,743.33	\$ 8,868.81	2.7%	\$ 7,968.77	\$ 314,714.65	\$ 323,583.46	\$ (900.04)	\$ (137,774.56)

**Note:** The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.